

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>Accredited to ISO/IEC 17025:2005</b>	<b>EffecTech Limited</b>	
	<b>Issue No: 025    Issue date: 01 September 2017</b>	
	<b>Dove House Dove Fields Uttoxeter Staffordshire ST14 8HU</b>	<b>Contact: Dr Gavin Squire Tel: +44 (0)1889 569229 Fax: +44 (0)1889 569220 E-Mail: gavin.squire@effectech.co.uk Website: www.effectech.co.uk</b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> EffecTech Limited Dove House Dove Fields Uttoxeter Staffordshire ST14 8HU	<b>Local contact</b> Dr Gavin Squire  Tel: +44 (0)1889 569229 Fax: +44 (0)1889 569220 Email: gavin.squire@effectech.co.uk	Gas Testing  Uttoxeter
<b>Address</b> N-163 MIDC Tarapur Boisar District Thane - 401506 Maharashtra India	<b>Local contact</b> Padmakar Tillu  Tel: +91 (0)2525 276137 Fax: +91 (0)2525 276827 Email: padmakar.tillu@effectech.co.in	Gas Testing  Tarapur
<b>Address</b> QP West Support Services Area Ghuwairiya Street IR # 1 Ras Laffan Qatar	<b>Local contact</b> Biju Davis  Tel: +974 55 89 8625 Fax: +974 44 51 5319 Email: biju.davis@effectech.com.qa	Gas Testing  Qatar





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
NATURAL GAS (cont'd)	<u>Chemical Analysis (cont'd)</u>  <u>Calculated values</u>  carbon emission factor (gross) carbon emission factory (net) carbon emission factory (quantity)	<b>In-house method TM001 (cont'd)</b>  Calculated values according to the COMMISSION DECISION of 18/VII/2007 establishing guidelines for the monitoring and reporting of greenhouse gas emissions pursuant to Directive 2003/87/EC of the European Parliament and of the Council of Brussels, 18/VII/2007 C (2007) 3416 final (publ EU Commission 18th July 2007)	Utoxeter
	amount fraction (%mol/mol)  nitrogen 0.1 to 12 carbon dioxide 0.05 to 8 methane 64 to 100 ethane 0.1 to 14 propane 0.05 to 8 iso-butane 0.01 to 1.2 n-butane 0.01 to 1.2 neo-pentane 0.005 to 0.35 iso-pentane 0.005 to 0.35 n-pentane 0.005 to 0.35 2-methylpentane 0.005 to 0.10 3-methylpentane 0.005 to 0.10 2,2-dimethylbutane 0.005 to 0.10 n-hexane 0.005 to 0.10 hexanes [2] 0.005 to 0.10 benzene 0.005 to 0.10 cyclohexane 0.005 to 0.10 n-heptane 0.0025 to 0.10 heptanes [2] 0.0025 to 0.10 toluene 0.005 to 0.10 methylcyclohexane 0.005 to 0.10 n-octane 0.0005 to 0.05 octanes [2] 0.0005 to 0.05 n-nonane 0.0005 to 0.02 nonanes [2] 0.0005 to 0.02 n-decane 0.0005 to 0.005 decanes [2] 0.0005 to 0.005 oxygen 0.005 to 1.0	<b>In-house methods TM005 and TM022</b>  Analysis of natural gas using gas chromatography  [2] the amount fraction of a grouped component is the sum of all isomers in that group except for those identified separately	Tarapur and Qatar



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
NATURAL GAS (cont'd)	<u>Chemical Analysis</u> (cont'd)	<b>In-house methods TM005 and TM022</b> (cont'd)	Tarapur and Qatar
	<u>Calculated values</u>		
	calorific value (superior) calorific value (inferior) relative density, density Wobbe Index mean molecular mass compression factor	Calculated values according to ISO 6976:1995 (E) including amendment No 1, May 1998	
	amount fraction (ppm mol/mol)	<b>In-house method TM002</b>	Uttoxeter
	hydrogen sulphide 0.05 to 10 carbonyl sulphide 0.05 to 10 methanethiol 0.05 to 10 (methyl mercaptan) ethanethiol 0.05 to 10 (ethyl mercaptan) 2-methyl-2-propanethiol 0.05 to 10 (tert-butyl mercaptan) propanethiol 0.05 to 10 (n-propyl mercaptan) butanethiol 0.05 to 10 (n-butyl mercaptan) 2-propanethiol 0.05 to 10 (iso-propyl mercaptan) dimethyl sulphide 0.05 to 10 ethyl methyl sulphide 0.05 to 10 (methyl ethyl sulphide) diethyl sulphide 0.05 to 10 tetrahydrothiophene 0.05 to 10 (THT)	Analysis of natural gas using gas chromatography with sulphur chemiluminescence detection (SCD)	
PETROLEUM AND PETROLEUM PRODUCTS	<u>Chemical Analysis</u>		
Composition of high pressure condensate fluids and stabilised condensates	water content 0.001 % to 5.0 % by mass	<b>In-house method TM007</b> based on IP386	Uttoxeter
	density 0.68 g/ml to 0.97 g/ml	<b>In-house method TM008</b> based on IP365	
	stabilised condensate composition to nC <sub>36</sub>	<b>In-house method TM009</b> using gas chromatography	
END			